

NRP Post

A publication of NASA Research Park

Winter 2007

NASA and Google Sign Formal Agreement



Left to right: Chris C. Kemp, Ames Director of Business Development; S. Pete Worden, Ames Center Director; Tiffany Montague, Google Director of New Business Development; and Dr. Dan Clancy, Google Engineering Director at the Ames Exploration Center reception December 15, 2006, announcing the signing of the Ames and Google Space Act Agreement.

NASA Ames Research Center and Google have signed a Space Act Agreement to work together on a variety of challenging technical problems ranging from large-scale data management and massively distributed computing, to human-computer interfaces.

As the first in a series of joint collaborations, Google and Ames will focus on making the most useful of NASA's information available on the Internet. Real-time weather visualization and forecasting, high-resolution 3-D maps of the moon and Mars, real-time tracking of the International Space Station and the space shuttle will be explored in the future.

"This agreement between NASA and Google will soon allow every American to experience a virtual flight over the surface of the moon or through the canyons of Mars," said NASA Administrator Michael Griffin at Headquarters in Washington. "This innovative combination of information technology and space science will make NASA's space exploration work accessible to everyone," added Griffin.

continued on page 6

CREST Evolves from Space Technology Center

The new Center for Robotic Exploration and Space Technologies (CREST), in Bldg. 583C, NASA Research Park, is a consortium of local and national academic institutions working with government and industry on robotic and space-related mission development, technology advancement and educational opportunities.

CREST evolved in 2006 from the Space Technology Center (STC), formerly comprised of San Jose State University, Santa Clara University, Stanford University and California Polytechnic State University.

"Our objective is to provide low-cost, high-risk technology and mission solutions that can serve as pathfinders for NASA's core business" said Professor Christopher Kitts of Santa Clara University, director of CREST. "We have provided critical mission design and operations support to Genebox and GeneSat, and we're now participating as members of the NASA PharmaSat team and working on many other space missions."

continued on page 6

NRP Partner Changene Granted Patent

NASA Research Park partner Changene, Inc. was granted patent # 7,163,795 on January 17, 2007 by the U.S. Patent and Trademark Office (PTO) for the discovery of nacrein from *Pinctada margaritifera*, a black pearl oyster found in the South Pacific Ocean.

Nacrein is a naturally occurring biological molecule that regulates calcium crystals during pearl formation. The mechanism of building biominerals in shells is similar to bone formation in humans. Studies show that nacreous substances extracted from *Pinctada* species demonstrated significant osteogenic (bone forming) activities in mammalian models.



Image of Nacrein 3D structure provided by Changene and Ames Advanced Supercomputing Division.

continued on page 8

NRP Exploration Lecture Astronaut Tom Jones



The NRP Exploration Lecture Series presents Astronaut/Author Tom Jones @ 7 pm on March 13 in the Eagle Room, Bldg. 943, outside the Main Gate. Veteran shuttle astronaut Jones, author of "SkyWalking: An Astronaut's Memoir," will talk about his experiences as mission specialist and payload commander aboard four space shuttle flights, and will sign copies of his book after the lecture. The NRP Exploration Lecture Series' mission is to inspire the explorer in everyone.

Apprion Receives Trade Accolade

Dec 14, 2006 /PRNewswire via COMTEX/

NASA Research Park partner Apprion, the pioneer of managed industrial-strength wireless solutions for manufacturers, has been recognized as a top provider of "machine-to-machine technologies" in the marketplace by M2M magazine.

"This year's M2M 100 directory provides a snapshot of an emerging market and identifies the companies with the greatest impact on its direction. Companies are delivering solutions that make it easier to adopt machine-to-machine communications and realize the technology's enormous business value," says Michael Jarosik, editor of M2M magazine.

As an "M2M 100" company this year, Apprion joins a number of distinguished world-class, private and public companies, such as General Electric, BT Group PLC, IBM, Accenture, Motorola, Texas Instruments, SAP, Siemens, T-Mobile, Verizon Wireless, Motorola, Qualcomm, and Savi Technology, among others.

NRP Welcomes New Tenant

Mars Institute Dr. Pascal Lee, Building 19 - February 1, 2007

"We have currently leased 98% of available space at NRP. We continue to receive inquiries and are challenged by this lack of space. Prospective partners are being screened for programmatic compatibility, and we look forward to working with existing and new partners to expand the programmatic partnership."

Mejban Haider, NRP Chief

QTech Launches Voice-activated Memory Solution

January 30, 2007 /PRNewswire via COMTEX/

NRP partner QTech Inc. recently launched 'reQall(TM)', its flagship voice-based tool that helps you remember. The company received a DEMOgod award at the conference in Palm Desert, CA. The prestigious award is presented to select companies that clearly articulate the significance of their debuting technology despite the pressures of a jaded audience, a make-or-break level of expectation, and a six-minute count down clock.

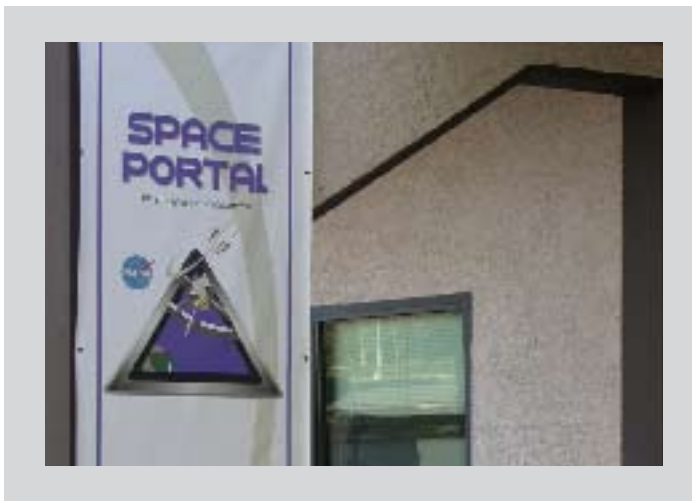
"QTech is pioneering the next wave of voice-based technologies for all communication devices," said Dr. N. Rao Machiraju, QTech chairman and CEO. "We are passionate about providing our customers with the very best memory tools to augment their work and lifestyle. reQall will impact the way people remember their tasks and events in the future, enabling much greater flexibility and productivity in their work and personal life."

The company announced also that Don Norman, industry veteran and product design guru, has joined QTech's management team as chief mentor. The team includes N. Rao Machiraju, Sunil Vemuri, Jacky Mallet and Debra Miller. QTech's U.S. headquarters is at NASA Research Park, Moffett Field, CA.

Acting as a virtual personal assistant, reQall enables users to easily record and conveniently retrieve reminders and notes based on contextual preferences. reQall is patent-pending software technology using a combination of voice interface and speech-recognition technology to record, log and retrieve tasks, meetings and voice notes. The reQall service can be used via any phone by calling a toll-free number, and does not require any software downloads.

Unlike solutions that simply record voice messages, reQall offers contextually relevant date and time-based memory assistance. The interactive voice response system leverages any communication device, ie. mobile phones, smart phones, land lines, desktops, laptops or an IP softphone such as Skype.

Space Portal Update



Space Portal, Building 555, Nasa Research Park

"Space Portal has been busy," said Ames scientist Dr. Dan Rasky. "We negotiated six tasks to support the Commercial Orbital Transportation Services (COTS) Program Office at Johnson Space Center, Houston, TX. We established two reimbursable Space Act Agreements, and we are working on two others for COTS partner technical support, with Rocketplane Kistler, Oklahoma City, OK, and SpaceX, Los Angeles, CA. Ocean Engineering and Paragon are supporting SpaceX," he said.

Commercial space travel firms SpaceX and Rocketplane Kistler were awarded in August 2006 and will share \$500 million COTS funding from NASA Headquarters to help develop transportation systems to support the International Space Station. The NASA COTS program goal is to help new space transportation firms develop vehicles for low cost transportation to Earth orbit for both government and private customers, crucial for expanded commercial space activities and permanent bases on the moon and Mars.

Space Portal also facilitated an agreement between Virtue Arts and Hewlett Packard for the development of a space simulation capability. "The Lunar Racing Challenge is a 3-D immersion video gaming experience, with accurate views of the surface of the moon, as well as star constellations and earth-rise, almost like Star Trek's Holodeck - that makes you feel like you are on the moon," said Rasky.

Virtue Arts, who developed the Lunar Racing Challenge, exhibited their product in collaboration with Hewlett Packard at the 2007 Consumer Electronics Show in Las Vegas, NV. Planning is underway for installation of a seat in the Space Portal, Bldg. 555 in NASA Research Park.

"Every day a commercial space travel entrepreneur comes through our doors," said Dan Coughlin, an engineer from Marshall Space Flight Center, Huntsville, AL now based at Space Portal. Dan, a SLOAN Fellow, is on loan to Virgin Galactic, and is fast-tracking Sir Richard Branson's Spaceship 2 venture.

Spaceship 2 plans prototype flights in 2008 and commercial suborbital rides (65 miles altitude) in 2009, at \$200,000 a trip, initially from the Mojave Spaceport. The high-flying customers are in line -- more than 100 tickets have been sold. In January Dan was ordering the pressure suits from Texas that space tourists will wear in the early stages of Spaceship 2 flights.

Spaceship 2 is built by Burt Rutan's Scaled Composites in the Mojave Desert. Spaceship 1, the 2004 winner of the \$10 million Ansari X Prize for two consecutive successful flights to 62 miles (100 km) altitude, also was built by Scaled Composites.

NASA Ames Partnership Office presents Technology Showcase

The NASA Technology Showcase will be held on Tuesday, April 24, 2007 from 1 - 4:30 p.m. in Bldg. 3, the Moffett Training and Conference Center. The Technology Showcase is a great opportunity for NRP partners to network with the Ames and Silicon Valley communities.

Sponsored by Ames Partnerships Office, the Technology Showcase will provide an opportunity for NASA partners to exhibit and discuss their business ideas and technology with Silicon Valley decision-makers, and showcase their NASA partnerships and NRP presence.

In addition to the exhibits, selected partners in cutting-edge areas such as intelligent robots, space commercialization and voice-activated and wireless communications will give brief presentations.

Center Director Pete Worden will deliver an opening address, and Partnerships Office Director Michael Marlaire will give an overview of the Ames Partnership Office.

Carnegie Mellon West Launches Masters in Software Management

by CMU West staff



CMU West Campus, NASA Research Park Bldg. 23

Carnegie Mellon West has launched a new Masters in Software Management degree program, offered on a part-time basis at our NASA Research Park campus in Mountain View, CA. This new program is specifically designed for computer scientists and engineers who are seeking greater responsibility in roles such as program manager, product manager, director of software development, and senior management positions in software-intensive organizations.

If you need a better understanding of how software businesses work, how products are defined, created, and implemented; and are looking to improve your communication, teamwork, managerial, and business skills, then you should explore Carnegie Mellon West's new MS in Software Management degree program.

Join us at our Spring Information Sessions to learn more about our part-time MS in Software Engineering and MS in Software Management programs. All sessions are held 6:30 - 8:00 p.m. at Carnegie Mellon West, NASA Research Park, Building 23, First Floor, Moffett Field, CA. Refreshments will be served.

Session dates are: Tuesday, February 20, Thursday, March 8, Thursday, March 22, Tuesday, April 3, Tuesday, April 17, Tuesday, May 1 and Tuesday, May 15

Meet current students, faculty, and alumni, and learn how you can advance your career with one of the strongest brand names in software engineering education. For questions or to register for these events, contact Sylvia Leong, Associate Director for Admissions, at admissions@west.cmu.edu, at (650) 335-2808 or by email sylvia.leong@west.cmu.edu. Check out our website at <http://west.cmu.edu> for more news, events, and the latest announcements.

UCSC Expands Academic Program at NRP

by UCSC staff

UCSC has recently expanded its academic program offerings at the UCSC Silicon Valley Campus in NASA Research Park at Ames Research Center.

"We are bringing these programs together at our Silicon Valley Campus to take advantage of the potential academic and research synergies of these related fields of study," said UCSC's Connie Miley, Senior Administrative Manager.

In addition to the graduate-level certificate program in Knowledge Services and Enterprise Management (KSEM), the University of California, Santa Cruz's Baskin School of Engineering now also offers a Master's of Science in Computer Engineering with specialization in Network Engineering (MSNE) program at the UCSC Silicon Valley Campus.

These programs provide the specialized skills and knowledge needed to address the information technology challenges faced by Silicon Valley's high-tech industries.

The MSNE program (www.soe.ucsc.edu/programs/msne) is designed to educate engineers and technical professionals to enter and practice in the highly specialized field of network engineering.

The KSEM program (www.soe.ucsc.edu/programs/ksem) focuses on building the skills and knowledge required to design and manage technology-based enterprises. By synthesizing the ideas from traditional fields such as computer science, economics, and business management, KSEM studies the use of information technology to successfully compete in the Information Economy. For more information please contact Connie Miley at Connie.Miley@ADM.UCSC.edu or stop by her office in Bldg. 19, Room 2074.

Connie Miley, Senior Administrative Manager, UCSC-Silicon Valley Center, is a great asset to UCSC-Silicon Valley Center.



Opportunity Knocks at UNCFSP Online Registration

by UNCFSP staff

NASA Research Park partner United Negro College Fund Special Programs Corporation (UNCFSP) announces the release of our new, integrated registration and resume system at <http://www.uncfsp.org/register>.

Screen shot from UNCFSP Website. The deadline for the summer internship at NASA Ames is February 15th, 2007. Interns will work with and be mentored by NASA scientists and researchers.

Each year UNCFSP provides hundreds of thousands of dollars to support underserved and underrepresented populations, including minority institutions, faculty, and students.

Our new registration and resume system is your portal to these opportunities, including: scholarships, fellowships, internships, grants, research awards, employment, contract work, professional development and other opportunities.

By registering and providing your resume, you will receive the following: automatic notification about open opportunities that match your level and interests, facilitated application process for any/all open opportunities, notification about professional development and other opportunities and a quarterly newsletter.

Go to <http://www.uncfsp.org/register> now! We currently have multiple open opportunities, and more are coming soon! Winter/Spring is our main recruitment time for workforce development awards, including fellowships and internships. We strongly encourage ALL students, faculty, and professionals to sign up now! Questions? Please contact us at registration@uncfsp.org.

Carnegie Mellon West and UC Berkeley Host April Conference on the New Software Industry

by CMU West staff

Software backed by commodity hardware will shape the future of business. Predicting and designing its course over the next ten years is a challenge requiring deep understanding and imagination. The build-out of the internet and mobile technology are giving rise to new service delivery models, while open source and globalization are changing how we create software. What kind of software to produce, how to produce it, and how to deliver its value will be very different in the future.

On April 30th, 2007, CMU West, UC Berkeley's Haas School of Business, and the University of California's Center for Information Technology Research in the Interest of Society (CITRIS) will bring thought leaders from academia and industry together to explore the future of the software industry.

The 1-day conference to be held at CMU West, NASA Research Park, is sponsored by creators and consumers of software who are invited to join us for provocative discussions.

Participants will leave with a clearer road map of the changing software industry, and how to exploit emerging opportunities. This unique conference will offer a conceptual framework for the software industry, a vector pointing to the future, and pointers to the best opportunities.

For more information, contact CMU's Associate Dean of Professional Development, Diane Dimeff, at (650) 335-2813 or diane.dimeff@west.cmu.edu.

NRP Holiday Party at Tee-1

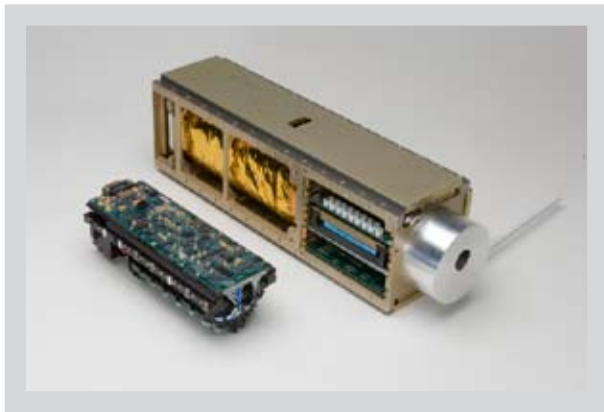


Left to right: D. Barrese, NRP; R. Maines, Maines Associates; M. Haider, Chief NRP; B. Lopez, NRP; and B. Kajiyama, Photozig Inc. Photo Courtesy of Photozig, Inc.

CREST

continued from front page

CREST reorganized to signify an expansion in scope and membership, which now includes more than a dozen members from Silicon Valley and the U.S. A formal Memorandum of Understanding is in development with Santa Clara, Stanford, and San Jose State Universities, Ohlone College, Cal Poly SLO, and discussions are being held with UCSC, Mills College and the National Hispanic University. Nationally CREST has partnerships in development with Northeastern, Washington, Montana State and Iowa State Universities, and Kentucky and the Mid-Atlantic Institute for Space and Technology.



GeneSat-1 payload assembly. Launched past Dec, GeneSat-1 is orbiting Earth and is expected to re-enter the atmosphere and burn up before the end of 2007. The GeneSat-1 spacecraft will soon be handed to Santa Clara University for use as a training tool for future aerospace engineers.

CREST's new scope includes a range of robotic missions and technologies: marine robotics, land rover clusters, UAV platforms and instruments, in addition to small satellite development and operations utilizing innovative, low-cost design strategies and streamlined development processes. Research specialties include autonomous reasoning for tele-robotic systems, multi-robot systems, composable design ("plug and play" missions) and Earth Sciences applications. CREST will continue to provide student education and workforce training via educational programs in robotics, aerospace and spacecraft for K-12 through graduate research.

CREST entered into a new partnership with the NASA Space Portal in mid-2006. "CREST offers some very exciting possibilities for the commercial sector, while achieving NASA's strategic goals," said Greg Schmidt, Space Portal co-founder and NASA lead for the CREST partnership. Elements to this partnership include the CREST/Space Portal Development Laboratory focusing on such goals as development of re-entry systems for small satellites, and the graduate level Entrepreneurial Space certificate offered jointly with Santa Clara University.

Google

continued from front page

"Partnering with NASA made perfect sense for Google. NASA has a wealth of technical expertise and data that will be of great use to Google as we look to tackle many computing issues on behalf of our users," said Eric Schmidt, chief executive officer of Google.

Teams from NASA and Google met recently to discuss many challenging computer science problems facing both organizations and possible joint collaborations. NASA and Google will incorporate agency data sets in Google Earth, focusing on user studies and cognitive modeling for human computer interaction, and science data search utilizing a variety of Google features and products.

"Our collaboration with Google will demonstrate that the private and public sectors can accomplish great things together," said S. Pete Worden, Ames Center Director.

"I want NASA Ames to establish partnerships with the private sector that encourage innovation, while advancing the Vision for Space Exploration and commercial interests. We are making maximum use of our mandate to work with the private sector and expanding our collaborations. Currently we have over 50 partners in NASA Research Park."

"NASA has collected and processed more information about our planet and universe than any other entity in the history of humanity," said Chris C. Kemp, Director of Strategic Business Development at Ames. "Even though this information was collected for the benefit of everyone, and much is in the public domain, the vast majority of this information is scattered and difficult for non-experts to access and to understand."

"We've worked hard to implement an agreement that enables NASA and Google to work closely together on a range of innovative collaborations," said Kemp. "We are bringing together some of the best research scientists and engineers to form teams to make more of NASA's vast information accessible."

NASA and Google also are finalizing details for additional collaborations that include joint research, products, facilities, education and missions.

Google's innovative search technologies connect millions of people around the world with information every day. Google is headquartered close to Ames in Silicon Valley with offices through the Americas, Europe and Asia.

Agenda set for Planetary Defense Conference

Ames Research Center Director Pete Worden will give the keynote address at the March 5-8 Planetary Defense Conference in Washington, D.C.

NASA Research Park is represented at the conference by NRP Partner Richard Davies of the Western Disaster Center. Rich has been invited to present a follow-up to his discussion at the 2004 Planetary Defense Conference concerning how the "disaster management community" can and should interface with the "planetary defense community."

Dr. David Morrison, Ames Chief Scientist for Astrobiology, will lead one of the sessions. For more information: <http://www.aero.org/news/newsitems/planetdefense1-29-07.html>

Photozig Commercial Release

Dec 25, 2006 /PRLEAP.COM/

Photozig, Inc., located at the NASA Research Park, announced December 25 the commercial release of the Photozig(R) Albums v1.0 product line, the easy and fast solution to organize and share digital photos and short movies with efficient web connectivity.

"You can easily find that special picture with quick search, tag photos, categorize albums, view digital photos in different ways, exchange full resolution images through the internet, drag/drop images from a web browser to your computer, and much more," said Bruno Kajiyama, CEO of Photozig.

Photozig Albums software transfers photos and movie clips from digital cameras, organizes them in the computer, creates slideshows with photos, movies, and music, generates personalized screensavers, emails photos to friends, and includes free online photo albums.

Photozig Albums Express product is offered free of charge for a limited time, including built-in free photo editing software, free slideshow software, and photo organizer software. Photozig Albums DeLuxe and Premium products will be sold through RegNow, a Digital River, Inc. company (NASDAQ: DRIV). Users can download photo software at www.photozig.com and unleash the possibilities of the best digital camera technology. For info contact: info@photozig.com.

Advanced Wireless Communications at NRP



NASA Research Park (NRP) partner, Advanced Wireless Communication (AWC) Inc. AWC team members are, left to right, Jeff Ottinger, Zachary Pereyo, Brian Trumbull, Mike Blankenship, Andrew Gold and Dusty Rhoades. The AWC team designs and maintains metro scale (city-wide) wireless networks.

"NRP Partner Advanced Wireless Communications (AWC) Inc. designs and maintains metro (municipal) scale and enterprise wireless networks, and provides automated solutions for many labor intensive processes - directly improving overall operational efficiency," said Zack Pereyo, AWC Chief Technology Officer. AWC optimizes and maintains portions of Google's Mountain View network, has been awarded contracts on a national scale and has worked with many California public safety agencies.

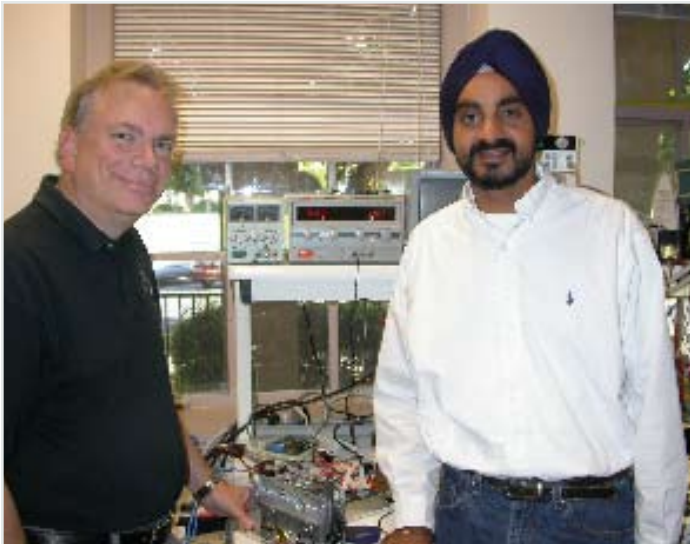
"We are very interested in developing our relationship with NASA to further the development of wireless sensor and control networks," said CEO Andrew Gold. "Particularly for NASA, we are interested in increasing dataflow capacity for operations conducted on the moon and Mars in support of the government and the emerging commercial space industry."

"Our software development department is growing and we are now developing centralized management software for wireless networks, security equipment and their peripherals," said AWC Jeff Ottinger. "This software can extend the life and capabilities of legacy systems and is being utilized on large enterprise networks."

continued on page 9

Tibion Accelerates PowerKnee Development

NRP Partner Tibion Corporation, a Silicon Valley developer of active orthotic devices based on bionic technologies, announced last fall the initial closing of its \$3.5 million series A venture capital financing. Tibion, based at NASA Research Park, is using the money to accelerate development of its bionic devices, particularly its "PowerKnee."



Left to right: Tibion co-founders Robert Horst, Ph.d., Chief Technology Officer, and Kern Bhugra, Chief Executive Officer, with the "Power Knee" prototype.

Tibion develops bionic devices for those with loss of muscle function due to disease, injury, aging or surgery. Tibion's products provide exo-skeleton assistance, resistance and rehabilitation of muscle function via a combination of patented, sensor-driven, actuator technologies and advances in embedded computer systems and orthotic science.

"The PowerKnee helps reduce muscle atrophy by providing active muscle assistance and resistance. For potential NASA applications, these features will be beneficial in a micro-gravity environment, where muscle atrophy can be severe, as well as upon returning from space to help rebuild muscle mass," said Tibion CEO Kern Bhugra. "Tibion became involved with NASA in the early development stages due to NASA's interest in such devices," he added.

Oakland-based Claremont Creek Ventures led the financing round with participation from Los Gatos-based Saratoga Ventures. In connection with the funding, John Steuart and Ted Driscoll from Claremont Creek Ventures will serve on the company's board. Medical device luminary Thomas J. Fogarty, M.D., also joined Tibion founders Robert Horst, Ph.d., and Kern Bhugra, on Tibion's Board of Directors.

"Tom has an amazing record of medical device innovation and entrepreneurial accomplishments," said Tibion CEO Kern Bhugra, "Without imagination, innovation is not possible," said Dr. Fogarty. "Tibion's innovative technologies and products are geared to improve the quality of life for the mobility-impaired. I look forward to collaborating with Tibion to realize these imaginative products."

Dr. Thomas J. Fogarty is an internationally recognized cardiovascular surgeon, inventor, entrepreneur and vintner involved with a wide spectrum of innovations in business and technology. The founder/co-founder of over 33 companies, Fogarty has acquired over 100 surgical patents, including the "industry standard" Fogarty balloon embolectomy catheter. He has received the Jacobson Innovation Award of the American College of Surgeons and the 2000 Lemelson-MIT prize for Invention and Innovation. Fogarty was inducted into the Inventors Hall of Fame in December 2001.

Tibion, at NASA Research Park since early 2003, has won awards for its work in bionic medical device development from the American Society on Aging and the National Council on Aging. Tibion is broadly recognized as leading the development of bionic technologies and products for those with impaired mobility.

Changene

continued from front page

"Changene is investigating nacrein for space missions as a countermeasure for bone mass loss in the microgravity environment," said Frank Chang, Changene CEO. "In space many bones that aid movement on Earth are not subjected to the same stresses as they were on Earth. Over time, calcium normally stored in the bones breaks down and is released into the bloodstream, causing a decrease in bone density, or bone mass," says Chang.

This bone loss begins in the first few days in space at an average rate of 1.6 percent per month. This drop in density, known as disuse osteoporosis, leaves bones weak and less able to support the body's weight and movement upon return to Earth, putting the astronaut at a higher risk of fracture.

Osteoporosis and low bone density are also major health concerns for the world's aging population. Datamonitor, a leading consulting firm in London, forecasts osteoporosis market sales would reach \$10.4 billion for consumers in 2010.

Changene collaborated with NASA Ames Research Center's Advanced Supercomputing Division for ongoing studies, applying molecular dynamic simulation on the nacrein molecule and deciphering its tertiary structure.

Advanced Wireless

continued from page 7

AWC is in discussion with the Ames Exploration Technology Directorate, Code T, and Center Operations Directorate, Code J. A space act agreement for “Rapid Deployment of High Speed Wireless Communication” is being drafted.

This agreement could enable:

- Engineering/technology tests with Code TI, Intelligent Systems Division, with rovers in the Mars yard
- Field tests with rovers and humans in diverse terrains such as Houghton Crater, Canada; or the Mojave, CA, Utah or Arizona deserts
- Demonstration of state-of-the-art emergency communication services for Ames, DART, and other emergency service organizations

According to AWC Project Manager for NASA Mike Blankenship, AWC could also work with USGS thru Code JT, Applied Information Technology Division, to replace antiquated wireless microwave systems with state of the art radio transmitters in volcanoes. “The USGS infrastructure is vulnerable to alignment issues because their beam width is very narrow. Our beam width is wider, more tolerant to wind loads and other disturbances,” he said. Blankenship could work with code JT to upgrade the USGS and Stanford capital assets located at Ames. He recently coordinated the installation of WiFi at the Moffett Field Golf Course Tee-1 Clubhouse, in less than 2 ½ hours and at AWC cost.

“We specialize in surveillance systems coupled with wireless technology transport, and want to apply technology in ways never before seen,” said Pereyo. “We are certified to install surveillance networks that can handle any number of new or legacy cameras, recognize license plates for stolen cars or amber alerts, and also provide automated monitoring.”

“Our centralized management software allows users to access security equipment and monitor it through one unified interface,” said Ottinger.

“Most of our work is now terrestrial-based and often focuses on emergency communications,” said AWC Brian Trumbull. “Wireless communication systems are extremely effective in overcoming catastrophic events. We can provide immediate response and deploy communication systems rapidly to prevent communication breakdowns like those that occurred during Hurricane Katrina,” he added.

“We are growing astronomically,” said Trumbull. Since arriving at the NASA Research Park September 2006 we have doubled our number of employees and have made NRP our headquarters. “Advanced Wireless has been well received by NRP.

We find it appealing to be surrounded by brilliant companies and brilliant people in Silicon Valley’s technology sector. By surrounding ourselves with elite groups within the technology industry, we can tap into superior resources,” Gold said.

“We are interested in working to develop and deploy wireless technology to support FEMA and Homeland Security. We would like to provide equipment and test protocols to support all such organizations. We forecast continued growth, expecting to have more than 25 engineers and IT skilled employees by the middle of 2007. We are always in search of talented individuals to assist us in developing advanced solutions,” Gold said.

AWC, Inc. was founded in 2005 in Monterey, CA as a spin off from another high technology networking company.



“We now have wi-fi at the Tee-1 Golf Course Clubhouse, thanks to NASA Research Park Partner Advanced Wireless Communications,” said Terry Del Vecchio, Ames Exchange Operations Manager. AWC Project Manager Mike Blankenship coordinated the installation in less than 2 ½ hours and we are thrilled. “This is just the first of what we hope to be many mutually beneficial agreements with the NASA community,” said AWC CEO Andrew Gold.

Upcoming Events

End of February
NRP Customer Satisfaction Survey
to Partners

March 5-8
Planetary Defense Conference in Washington DC

March 13
The NRP Exploration Lecture Series presents Astronaut/
Author Tom Jones, 7 p.m., Eagle Room, Bldg. 943.

March 29
NASA Research Park Partner Meeting
1p.m. - 3:30 p.m., Eagle Room, Bldg 943.

April 24
NASA Technology Showcase, sponsored by the NASA Ames
Partnership Office, features NRP partners' presentations and
exhibits, 1p.m. - 4:30 p.m., Moffett Field Conference and
Education Center, Bldg. 3.

Other News

- NRP partners with Hangar 1 Badges are welcome to the Ames Research Center campus from 11 a.m. - 2 p.m. M-F for lunch at Mega Bites Cafeteria. Please join us.
- NRP Partners have an option to contract janitorial service independently of services offered through the NASA lease. For more information, contact Roger at Platinum Facilities Service, (408) 998-9004, email: roger@platinumfacilityservices.com
Company Benefits:
 - * Easy to work with
 - * Same day response time
 - * Trustworthy workers
 - * Cost effective
 - * Offers out-of-scope services free as needed (i.e. carpet cleaning, floor waxing)Scope of cleaning:
(M/W/F) - Dusting, garbage, vacuum, dishes, mopping, kitchen cleaning, dishwasher, counter cleaning
(T/Th) - Garbage, kitchen cleaning, window closing
- Tee-1 Bar & Grill Specials at the Moffet Field Golf Course:
 - * Monday Night Football includes \$2 hot dogs, \$1 pitchers of beer and free popcorn. 5p.m. - 9p.m.
 - * Wednesday Margarita Happy Hour includes \$3 margaritas, \$1 off all beer, appetizers and hot dogs. 4p.m. - 6p.m.
 - * M/W/Th night specials
 - * Breakfast served daily with wifi and cappuccino

NASA Ames Partnership Office at Space 2006

The Value Proposition for Space Conference was held Sept. 2006 at the San Jose McEnery Convention Center.



NASA Research Park, Diane Farrar



Technology Partnerships - Polly Claassen, Planners Collaborative; Lisa Williams

NRP Post

EditorDiane Farrar
Layout and Design Brandy Dettmer

NRP Post deadlines

Please submit articles to nrppest@mail.arc.nasa.gov
on or before May 15, 2007 for the next issue.

Phone: (650) 604-2NRP

Email: researchpark@mail.arc.nasa.gov

Website: www.researchpark.arc.nasa.gov